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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/623,402	07/18/2003	Michael R. Schwarz	CS-7890	4637

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EXAMINER

CLAYTOR, DEIRDRE RENEE

ART UNIT

PAPER NUMBER

1617

MAIL DATE

DELIVERY MODE

10/20/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/623,402

Applicant(s)

SCHWARZ, MICHAEL R.

Examiner

Renee Claytor

Art Unit

1617

Period for Reply -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 31 July 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1, 4-6, 8, 9 and 12-16 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1, 4-6, 8, 9 and 12-16 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SI-108)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Currently, claims 1, 4-6, 8-9 and 12-16 are pending and are being examined herein.

Response to Arguments

Applicants have amended the claims and assert that this is sufficient to overcome the rejection because Suzuki contains no teaching with respect to corn or maize or applying the insecticide as a seed treatment.

In response to the above argument, it is noted that Senn teaches treatment of maize and seed treatment. The following modified rejections, due to Applicants amendments, are given below for applicant's convenience.

Claim Rejections – 35 U.S.C. § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1, 4-6, 8-9, 12-16 rejected under 35 U.S.C. 103(a) as being unpatentable over JP 05-139921 to Suzuki et al, published June 8, 1993 (a translation of the JP reference is being referred to herein) in view of WO 01/26468 to Senn et al, published April 19, 2001.

Suzuki et al. teaches a granule for control of noxious organisms that combines 1-(6-chloro-3-pyridylmethyl)-N-nitroimidazolidine-2 indeneamine (imidacloprid, a

chloronicotinyl insecticide) with a sulfonylurea herbicide (see paragraph 0004, in particular). Suzuki et al. teaches that the granule can be used to control insect pests and weeds in rice paddy fields, in particular (see paragraph 0007, in particular). Suzuki et al. also teaches that the combination not only provides insecticidal and herbicidal activity, but that it also reduces the phytotoxicity to the plant that would otherwise be caused by the application of the herbicide (see paragraph 0009, in particular).

Accordingly, it is considered that Suzuki et al. teaches a method of reducing phytotoxicity to a plant caused by an herbicide application to the plant comprising applying to the plant locus a composition comprising a chloronicotinyl insecticide, and applying to the plant locus an herbicidal composition that is a sulfonylurea.

Regarding claims 6 and 16, Suzuki et al. teaches providing the insecticide 1-(6-chloro-3-pyridylmethyl)-N-nitroimidazolidine-2 indeneamine, which is a chloronicotinyl insecticide having the formula (I) as claimed, as well as the formula as recited in claim 16.

Suzuki et al. does not specifically teach that the herbicide is applied to the soil of the plant locus or to the foliage of the plant locus, as recited in claims 4-5. Suzuki et al. also does not specifically teach that the insecticide is applied to the seed of the plant or as a pre- or post-emergent treatment, as recited in claims 1 and 7-9. Suzuki et al. also does not specifically teach applying to a corn seed as in claim 12, or in the amount as in

claim 13. Suzuki et al. also does not specifically teach providing the soil temperature at the plant locus that is recited in claims 14-15.

Senn et al. teaches that plant growth can be improved by applying compounds having the formula (I) (see abstract, in particular), which includes the insecticide imidacloprid (see page 3, in particular), the same compound as taught by Suzuki et al. Senn et al. teaches that the compounds not only provide pesticidal activity, but also enhance plant growth (see page 4, in particular).

Regarding claims 4-5, Senn et al. teaches that it is known to apply the insecticide/growth enhancer to the leaves of the plant (foliage) or to the soil (see paragraph bridging pages 7-8, in particular). Regarding claims 8-9, Senn et al. teaches that it is known to apply the insecticide/growth enhancer to the seed of the plant, which is a pre-emergent treatment, as well as to the plant itself, which is a post-emergent treatment (see paragraph bridging pages 7-8 and page 8, second and third full paragraphs, in particular).

Regarding claim 12, Senn et al. teaches that it is known to apply the insecticide/growth enhancer to the seeds of the plants, as discussed above, and that suitable plants that can be treated by the insecticide/growth enhancer include cereals such as maize (see page 5, first full paragraph, in particular).

Regarding claim 13, Senn et al. teaches that the insecticide/growth enhancer can be applied in a concentration of from 0.1 to 1000 ppm (see page 7, in particular), and can also be applied at a rate of application of from 0.0005 to 1 kg per 100 kg of material to be protected (e.g., plant propagation material). Furthermore, it is considered that one of ordinary skill in the art at the time the invention was made would have found it obvious to vary and/or optimize the amount of the insecticide/growth enhancer composition provided to the plant locus, according to the guidance provided by Senn et al, to provide a composition having desired properties. It is noted that "[W]here the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation." In re Aller, 220 F.2d 454, 456, 105 USPQ 233, 235 (CCPA 1955).

Regarding claims 14-15, Senn et al. teaches that it is known to apply the compound to the soil at the plant locus (see paragraph bridging pages 7-8, in particular), and accordingly it is considered that one of ordinary skill in the art at the time the invention was made would have found it obvious to apply the composition to soil at the native or outdoors temperature of the soil, including temperatures of from 4°C to 25°C, or about 10°C to about 20°C, with the expectation of achieving insecticidal effects as well as plant growth enhancement. It is noted that "[W]here the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation." In re Aller, 220 F.2d 454, 456, 105 USPQ 233, 235 (CCPA 1955).

Accordingly, it is considered that one of ordinary skill in the art at the time the invention was made would have found it obvious to apply the composition of Suzuki et al. in the methods of Senn et al, because Suzuki et al. teaches the advantages of combining an insecticide and herbicide to provide beneficial insecticidal, weed-killing and reduced phytotoxicity effects, whereas Senn et al. teaches known methods for the application and use of the insecticide used in the composition of Suzuki et al. Thus, one of ordinary skill in the art would have been motivated to provide the combination as taught by Suzuki et al, in the methods of Senn et al, with the expectation of further enhancing the methods by adding weed-killing effects with reduced phytotoxicity.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Renee Claytor whose telephone number is (571)272-8394. The examiner can normally be reached on M-F 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreeni Padmanabhan can be reached on 571-272-0629. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Renee Claytor

/SREENI PADMANABHAN/

Supervisory Patent Examiner, Art Unit 1617